



TYPICAL APPLICATIONS

# TES INDUSTRIAL PUMPING SETS

**Custom-designed to meet the Cooling needs of a wide variety of manufacturing processes**

- Induction Furnaces
- H/F Generators
- Factory Process Water
- Heat Sinks for Electronic Equipment
- Laser Cooling
- Welding Equipment
- Hydraulic Oil Coolers
- General Industrial Cooling

TYPICAL CONFIGURATION



FEATURES

- Custom-designed to suit specific requirements
- Suitable for open and closed systems
- Manifolds/Monitoring Racks - options available
- Full monitoring and control options
- Choice of ferrous/non-ferrous pipework
- Wide range of cooling performances
- Suitable for clean or contaminated primary water
- Compact design means minimum space required
- Provides clean recirculated water economically

BENEFITS

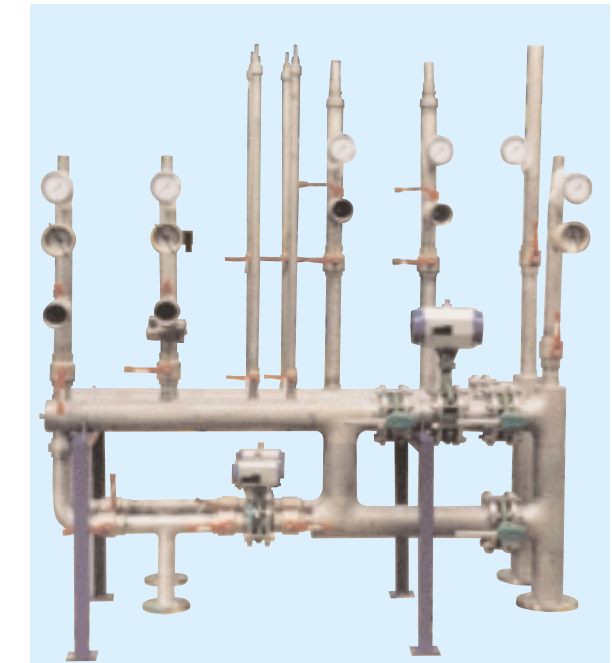


*custom-designed for economy & efficiency*

# INDUSTRIAL PUMPING SETS

## GENERAL DESIGN FEATURES

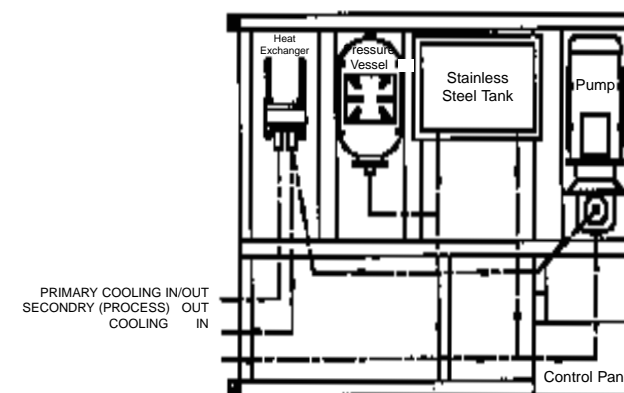
- PUMPS:** Single or double sets. Non-return and isolated valves fitted to double pumps facilitate automatic or manual changeover.
- FRAMEWORK:** Manufactured from rigid hollow steel section in standard colour to minimum size commensurate with servicing requirements. Accessible break points are provided in pipework.
- GAUGES:** Pipe or panel-mounted.  
**Temperature:** Electronic version available.  
**Pressure:** Valved to reduce wear.
- MANIFOLDS/MONITORING RACKS:** Provide a central distribution point for flow and return lines to specialised pieces of equipment in the total system. Individual lines frequently require monitored flow, flow switches and over temperature sensors. TES offer the engineering industries a standard arrangement covering any number of flow points and flow volumes. Main manifolds and connection points are in stainless steel, with valves at each flow point on both flow and return sides of the system.



Typical Manifold system

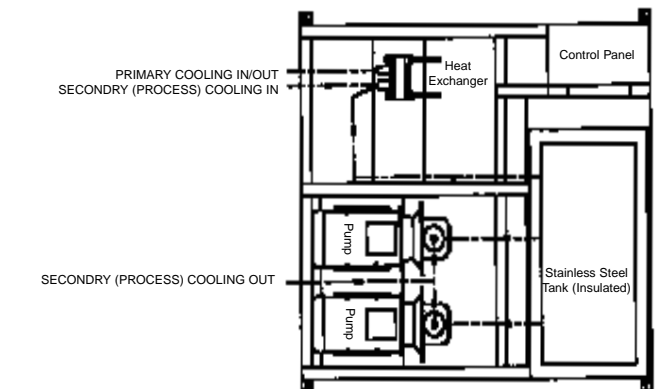
## GENERAL DESIGN LAYOUT

### PLAN VIEW - CLOSED SYSTEM:



**Closed system.** Chemicals/antifreeze need to be added to circulating water to minimise dissolved oxygen. Little consideration is often given to the addition of such chemicals or the rapid venting of air while priming a large system. TES have solved these problems.

### PLAN VIEW - OPEN SYSTEM:



**Open system.** Integral part of the system, with direct water return and venting of any air. Reservoir size depends on water flow and normally feeds pump under flooded conditions. Reservoir provides the system with space for special filters, hot and cold divisions, settling areas in quench systems and capacity to lose water without immediate replacement. NB: This type of reservoir should not be used in conjunction with mild steel pipes.



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*the cooling specialists*